

## **AMENDMENTS TO THE SPECIFICATION**

Please delete the prior abstract and add the following new abstract.

An interferometer includes a source of a heterodyne beam including frequency components having frequency components with orthogonal linear polarizations. A beam splitter separates frequency components of the heterodyne beams, and one or more AOMs increase the frequency separation between the separated beams. The separated beams can be sent via optical fibers to a beam-combining unit, which combines the beams for use in interferometer optics.